

Syllabus
Academic Session 2014-15

April -May

1. Numbers

- Making numbers with and without repetition of digits
- Conversion of units
- Roman numerals
- Word problems on Addition, Subtraction, Multiplication and Division of big numbers
- Estimation

2. Basic geometrical ideas

- Line, line segment, ray
- Open and closed figures
- Types of angles, triangles, quadrilaterals
- Circles

3. Data Handling

- Pictograph
- Bar graph

July

4. Fractions and Decimals

- Addition, subtraction, multiplication and division of fractions and decimals
- Word problems on above

5. Whole numbers

- Introduction to the concept of whole numbers
- Closure, commutative, associative properties with respect to four basic operations
- Identity and inverse elements (for addition and multiplication)
- Distributive property

August

6. Integers

- Introduction of negative numbers
- Representation of integers on a number line
- Properties of integers
- Addition and subtraction of integers

September

Revision for first term examination

October

7. Elementary Shapes – 2D and 3D

- Parallel, intersecting and perpendicular lines
- Types of angles, triangles and polygons
- 3 dimensional shapes

8. Introduction to algebra

- Introduction to the concept of constants and variables
- Types of Algebraic expressions
- Solving simple equations

November

9. Mensuration – Perimeter and Area

- Perimeter of plane figures
- Area of rectangle and square

December

10. Ratio and Proportion

- Concept of ratio
- Proportion as equality of two ratios
- Unitary method

January-February

11. HCF and LCM

- Divisibility tests and their applications
- Finding HCF by long division method
- Word problems based on HCF and LCM
- Relation between HCF and LCM of two or more numbers

12. Construction of Shapes

- Angles and their bisectors
- Perpendicular and Perpendicular bisector

Revision for final examination